

p#8



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1653

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/664,326

DATE: 04/04/2002

TIME: 15:16:31

Input Set : A:\24811693.app

Output Set: N:\CRF3\04042002\I664326.raw

3 <110> APPLICANT: HABERMANN, PAUL  
 4 BENDER, RUDOLF  
 6 <120> TITLE OF INVENTION: SIGNAL SEQUENCES FOR PREPARING LEU-HIRUDIN BY SECRETION  
 7 BY E. COLI INTO THE CULTURE MEDIUM  
 9 <130> FILE REFERENCE: 02481.1693  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/664,326  
 C--> 12 <141> CURRENT FILING DATE: 2000-09-18  
 14 <160> NUMBER OF SEQ ID NOS: 33  
 16 <170> SOFTWARE: PatentIn Ver. 2.1  
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 21 <213> ORGANISM: Artificial Sequence  
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 24 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide  
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 27 tttttttaag cttgggctgc aggtc 25  
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 35 <220> FEATURE:  
 36 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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 43 <211> LENGTH: 57  
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 45 <213> ORGANISM: Artificial Sequence  
 47 <220> FEATURE:  
 48 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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 54 <210> SEQ ID NO: 4  
 55 <211> LENGTH: 58  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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 63 ggtttcttta ttgccgtac ttctttcggc gttctggcac ttacgtatac tgactgca 58  
 66 <210> SEQ ID NO: 5  
 67 <211> LENGTH: 56

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68 <212> TYPE: DNA  
69 <213> ORGANISM: Artificial Sequence  
71 <220> FEATURE:  
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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79 <211> LENGTH: 61  
80 <212> TYPE: DNA  
81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
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88 a 61  
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108 <220> FEATURE:  
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113 gca 63  
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133 <220> FEATURE:  
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137 ctgatcccgt tctttgcagc gttctgcctg ccgggttttcg cgcttacgta tactgactgc 60  
138 a 61

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159 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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170 <220> FEATURE:
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224 atggc 65
227 <210> SEQ ID NO: 18
228 <211> LENGTH: 55
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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239 <210> SEQ ID NO: 19
240 <211> LENGTH: 60
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
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251 <210> SEQ ID NO: 20
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253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
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264 <211> LENGTH: 57
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
271 <400> SEQUENCE: 21
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276 <211> LENGTH: 227
277 <212> TYPE: DNA
278 <213> ORGANISM: Unknown Organism
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Unknown Organism: Hirudin-encoding
282 DNA sequence
284 <220> FEATURE:

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286 <222> LOCATION: (1)..(195)
288 <400> SEQUENCE: 22
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290 Leu Thr Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu Cys
291 1 5 10 15
293 gaa gga tct aac gtt tgc ggc cag ggt aac aaa tgc atc ctt gga tcc 96
294 Glu Gly Ser Asn Val Cys Gly Gln Asn Lys Cys Ile Leu Gly Ser
295 20 25 30
297 gac ggt gaa aag aac cag tgc gtt act ggc gaa ggt acc ccg aaa ccg 144
298 Asp Gly Glu Lys Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys Pro
299 35 40 45
301 cag tct cat aac gac ggc gac ttc gaa gag atc cct gag gaa tac ctt 192
302 Gln Ser His Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu
303 50 55 60
305 cag taatagagct cgtcgacctg cagcccaagc tt 227
306 Gln
307 65
310 <210> SEQ ID NO: 23
311 <211> LENGTH: 65
312 <212> TYPE: PRT
313 <213> ORGANISM: Unknown Organism
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Description of Unknown Organism: Hirudin-encoded
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320 Leu Thr Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu Cys
321 1 5 10 15
323 Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys Cys Ile Leu Gly Ser
324 20 25 30
326 Asp Gly Glu Lys Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys Pro
327 35 40 45
329 Gln Ser His Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu
330 50 55 60
332 Gln
333 65
337 <210> SEQ ID NO: 24
338 <211> LENGTH: 30
339 <212> TYPE: PRT
340 <213> ORGANISM: Unknown Organism
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Description of Unknown Organism: Control:
344 cgtase-Ala-hirudin
346 <400> SEQUENCE: 24
347 Met Lys Arg Asn Arg Phe Phe Asn Thr Ser Ala Ala Ile Ala Ile Ser
348 1 5 10 15
350 Ile Ala Leu Asn Thr Phe Phe Cys Ser Met Gln Thr Ile Ala
351 20 25 30
354 <210> SEQ ID NO: 25

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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date